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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,252	07/05/2006	Michael Bauer	1431.140.101/FIN 480 PCT	3329
25281	7590	12/28/2007	EXAMINER	
DICKE, BILLIG & CZAJA			AYCHILLHUM, ANDARGIE M	
FIFTH STREET TOWERS				
100 SOUTH FIFTH STREET, SUITE 2250			ART UNIT	
MINNEAPOLIS, MN 55402			PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/562,252	Applicant(s) BAUER ET AL.	
	Examiner Andargie M. Aychillhum	Art Unit 2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
4a) Of the above claim(s) 1-10 and 28-35 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 11-27 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>12/23/2005</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicant's election without traverse of claims 11-27 in the reply filed on 11/16/07 is acknowledged.

Claims 28-35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/16/07.

2. ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Baker et al. (US 5,869,896).

Pertaining to claim 11, Baker et al. discloses a first **(21)** (i.e. such as sensor array is a charge coupled device (**CCD**)) (see Baker et al. figures **13-14**) and a second component **(21)** with connection sides of the components **(21)**;

A wiring block **(25)** (column 3, lines **36-49**) (see Baker et al. figures **13 and 14**) with contact pads **(29)** (column 5, lines **10-35**) (see Baker et al. figures **13 and 14**) on its outer sides (see Baker et al. figures **13 and 14**) and with lines in its volume, the lines electrically connecting (column 3, lines **36-49**) the contact pads **(29)** on the outer sides to one another according to a circuit layout, the first component **(21)** and the second component **(21, on the other side)** being arranged on different non-opposite outer sides (see Baker et al. figures **13 and 14**) of the wiring block **(25)** and the connections being connected to the contact pads **(29)**.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 12-15 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker et al. (US 5,869,896) in view of Durousseau (US 6,708,051 B1)

Pertaining to claims 12 and 25, Baker et al. discloses all limitation except the lines comprise carbonized plastic.

Durousseau discloses lines comprise carbonized plastic (column 2, lines 3236)).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant (s) claimed invention was made to provide lines with carbonized plastic as taught by Durousseau to wiring of a sensor assembly disclosed by Baker et al. in order to provide energy supply line guiding chain that comprises flexible interconnected chain (interconnected by a cross bar) between the components.

Pertaining to claim 13-15 and 26-27, Baker et al. as modified by Durousseau substantially teaches all the claimed invention except wherein the lines comprise nanoparticles with carbonized short circuit paths between the nanoparticles, including comprising wherein the lines comprise anisotropically oriented nanoparticles.

Therefore, It would have been obvious to one having ordinary skill in the art at the time the invention was made to the lines comprise nanoparticles with carbonized short circuit paths between the nanoparticles, including comprising wherein the lines comprise anisotropically oriented nanoparticles, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use for the interconnecting between the contact pads to be wired on the outer side of the wiring block without complication. In re Leshin, 125 USPQ 416.

Pertaining to claim 16, Baker et al. as discloses a first (21) (i.e. such as sensor array is a charge coupled device (CCD)) (see Baker et al. figures 13-14) and a second component (21) with connection sides of the components (21);

A wiring block (25) (column 3, lines 36-49) (see Baker et al. figures 13 and 14) with contact pads (29) (column 5, lines 10-35) (see Baker et al. figures 13 and 14) on its outer sides (see Baker et al. figures 13 and 14) and with lines in its volume, the lines electrically connecting (column 3, lines 36-49) the contact pads (29) on the outer sides to one another according to a circuit layout, the first component (21) and the second component (21, on the other side) being arranged on different non-opposite outer sides (see Baker et al. figures 13 and 14) of the wiring block (25) and the connections being connected to the contact pads (29):

However Baker et al. does not disclose carbonized plastic.

Rudin discloses lines comprise carbonized plastic (column 1, lines 21-36).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant (s) claimed invention was made to provide lines with carbonized plastic as taught by Rudin to wiring of a sensor assembly disclosed by Baker et al. in order to provide energy supply line guiding chain that comprises flexible interconnected chain (interconnected by a cross bar) between the components.

6. Claim 17 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Baker et al. (US 5,869,896) in view of Agrawal et al. (US 5,644,496).

Pertaining to claim 17, Baker et al. discloses all limitations except vertical line routing, horizontal line routing, or line routing at different solid angles, thereby achieving reduced length wiring paths and reducing propagation time delays within the wiring block.

However, Agrawal et al. discloses vertical line routing (**31 and 32**), horizontal line routing (**31**), or line routing at different solid angles, thereby achieving reduced length wiring paths (column **7**, lines **38-60**) and reducing propagation time delays (column **7**, lines **19-37**).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant (s) claimed invention was made to provide lines and wiring path and reducing propagation time delays as taught by Agrawal et al. to wiring of a sensor assembly disclosed by Baker et al. in order to transfer signal to their final destination.

7. Claims 18-24 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Baker et al. (US 5,869,896) in view of Andoh et al. (US 5,095,357).

Pertaining to claims 18-24, Baker discloses all limitations except the line routing is three-dimensional, configured spiral, sheet, as an electrical passive and inductive component.

However, Andoh et al. discloses the line routing is three-dimensional (column **9**, lines **26-34**), configured spiral (**2**) (see Andoh figure **2**), sheet (**31**) (column **7-8**, lines **1-**

19), as an electrical passive (column 5, lines 47-53) and inductive component (i.e. such as passive component is inductive component).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant (s) claimed invention was made to provide the line routing is three-dimensional, configured spiral, sheet, as an electrical passive and inductive component as taught by Andoh et al. to wiring of a sensor assembly disclosed by Baker et al. in order to transmit signals to their final destination.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andargie M. Aychillhum whose telephone number is (571) 270-1607. The examiner can normally be reached on (Mon-Fri from 8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.A.
December 21, 2007



TUAN T. DINH
PRIMARY EXAMINER

12/26/07